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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

BARANOVA ET AL.

SERIAL NO.:

09/076,956

FILED:

MAY 13, 1998

FOR:

PROCESS FOR THE SYNTHESIS OF NUCLEIC ACIDS ON A SOLID SUPPORT AND COMPOUNDS

WHICH ARE USEFUL IN PARTICULAR AS SOLID

SUPPORTS IN SAME PROCESS

EXAMINER: CRANE, E., Ph.D.

Docket: 8.U

ART UNIT: 1623

CONF. NO.: 5479

RECEIVED

APR 0 2 2003

Assistant Commissioner for Patents Washington, D.C. 20231

TECH CENTER 1600/2900

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST (REVOCATION OF PRIOR POWERS)

As assignee of record of the entire interest of the above identified application,

REVOCATION OF PRIOR POWERS OF ATTORNEY

all powers of attorney previously given are hereby revoked and

NEW POWER OF ATTORNEY

the following attorney(s) are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith:

Name of Attorney	Registration Number
Thomas D. Bratschun	32,966
Barry J. Swanson	33,215
Margaret M. Wall	33,462
Rosemary P. Kellogg	39,726
Darla G. Yoerg	48,053
Steven N. Hird	51,112
James L. Brown	48,576
Dan Shifrin	34,473

Send correspondence to and direct phone calls to:

Margaret M. Wall Swanson & Bratschun, L.L.C. 1745 Shea Center Drive, #330 Highlands Ranch, CO 80129 United States of America (303) 268-0066

Attached hereto is a Certificate Under 37 CFR 3.73(b).

Proligo LLC 6200 Lookout Road Boulder, CO 80301 United States of America

Date: $\frac{3/10/03}{}$

Signature

JOANNAK. MONEY Ph. 1) Name of person authorized to sign on behalf of assignee

Vice President, Research Corporate Development Title

L:\WPDOCS\Proligo\8us2div\poa.wpd-MMW



Attorney Docket No. 8.US2.DIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BARANOVA ET AL.

APPLN. NO.:

09/076,956

FILED:

05/13/98

TITLE:

PROCESS FOR THE SYNTHESIS OF NUCLEIC ACIDS ON A SOLID SUPPORT

AND COMPOUNDS WHICH ARE USEFUL IN PARTICULAR AS SOLID

SUPPORTS IN SAME PROCESS

RECEIVED

Assistant Commissioner for Patents Washington, D.C. 20231

APR 0 2 2003

CERTIFICATE UNDER 37 CFR 3.73(b)

TECH CENTER 1600/2900

Dear Sir:

Proligo LLC, a corporation, is the Assignee of the above-captioned patent. A chain of title from the inventor(s) of the patent identified above, to the current assignee is shown below:

> 1. From: Baranova et al.

> > To: Genset S.A.

The document was recorded in the Patent and Trademark Office at Reel 8023, Frame 0534, or for which a copy thereof is attached.

2. From: Genset S.A.

> Proligo LLC To:

The document was submitted to the Patent and Trademark Office for recordation on January 21, 2003; a copy thereof is attached.

The undersigned has reviewed all the documents in the chain of title of the patent identified above and to the best of the undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature:

Name:

Andreas Wolter, Ph.D. JOANNA K. MOWZY

Title:

Vice President, Research CORPORATE DEVELOPMENT



JACOBSON, PRICE, HOLMAN & STERN, PLLC WILLIAM E. PLAYER 400 7TH STREET, N.W. WASHINGTON, D.C. 20004

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231



P60188

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/08/1996

REEL/FRAME: 8023/0534

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BARANOVA, LUDMILLA

DOC DATE: 01/03/1996

ASSIGNOR:

CHATELAIN, FRANCOIS

DOC DATE: 01/03/1996

RECEIVED

ASSIGNOR:

KUMAREV, VIKTOR

DOC DATE: 01/03/1996

APR 0 2 2003

ASSIGNEE:

GENSET

TECH CENTER 1600/2900

1 PASSAGE ETIENNE DELAUNAY 75011 PARIS, FRANCE

SERIAL NUMBER: 08591466

PATENT NUMBER:

FILING DATE: 01/11/1996

ISSUE DATE:

8023/0534 PAGE 2

ANNIE HARRELL, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

mes 7.5-96

Campissioner of Paténts &



07-10-1996

Washington, D.C. 20231

THE WELL TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE	
FORM PTO-1595 R]	. U.S. DEPARTMENT OF COMMERCE
(Rov. 6-93)	Patent and Trademark Office
To the Honorable Commissioner of P	0230551 . document or certified copy thereof.
1. Name of conveying Party(ies): Ludmilla BARANOVA Francois CHATELAIN Viktor KUMAREV WAR 3	2. Name and Address of receiving Party(ies): Name: GENSET RECEIVED Internal Address: 1 passage Etienne Delaunay APR 0 2 2003
Additional name(s) of conveying party(s) attached? Yes X No	Street Address: 1 passage Etienne Delaunay APR 0 2 2003
3. Nature of conveyance:	TECH CENTER 1600/2900
X Assignment	City: 75011 Paris
Security Agreement Change of Name	State/Country: FRANCE
Execution Date: January 3, 1996	Additional name(s) & address(es) attached? Yes X No
4. Application number(s) or patent number(s): If this document is being filed together with a new application	on, the execution date of the application is:
A. Patent Application No.(s)/Application Date	B. Patent No.(s)/Patent Date
08/591,466, filed January 11, 1996	
5. Name and address of party to whom correspondence concerning this matter should be mailed:	6. Number of applications and patents
Jacobson, Price, Holman & Stern, PLLC 400 7th Street, N.W. Washington, DC 20004 Tel. 202-638-6666	7. Total fee (37 CFR 3.41)\$ 40.00 X Enclosed X Any deficiencies in enclosed fees are authorized to be charged to deposit account
Thiomby Booker No. Electrical	8. Deposit Account No.: 06-1358
	(Attach duplicate copy of this page if paying by deposit account):
DO NOT US	SE THIS SPACE
9. Statement and Signature. To the best of my knowledge and belief, the foregoing information is original document.	true and correct and any attached copy is a true copy of the
	T/8/96 Chature Cluding cover sheet, attachments, and document: 2

JPH&S 103-12/93

ASSIGNMENT

		ition of the sum of aid to each of the un)) and other good and value
	(1) <u>Ludmilla</u>	BARANOVA	(5)	
Insert Name(s)	(2) François	CHATELAIN	(6)	
of Inventor(s)				
Insert Name		sufficiency of whi si of, hereby sell(s),		mowledged by the undersig
of Assignee Address	l passage	Etienne Delaunay	- 75011 PARIS /	FRANCE
Title of Invention	United States of PROCESS FOR TH	America as defined E SYNTHESIS OF NU	l in 35 U.S.C. 100, CLEIC ACIDS ON A	th, title and interest for in the invention known as SOLID SUPPORT AND ID SUPPORTS IN THE SAID
	executed even authorize(s) and Trademark to is ASSIGNEE, its sthat the attorned ASSIGNEE; AND the unthe said ASSIGNET further remuner reissues thereof assigns and legal	date herewith by d request(s) the ssue said Letters Paucessors, assigns a sys of record in said dersigned hereby agnee, its successors ation, in and to any and to testify and	the undersigned, United States Catent to the said red legal represent application shall ree(s) to transfer, assigns and legal and all divisions, execute any paper semed essential by	ted States of America has and the undersigned he ommissioner of Patents ASSIGNEE, for its interestatives; the undersigned agrahereafter act on behalf of a like interest, upon requestal representatives, and with continuations, substitutes, a for ASSIGNEE, its success, ASSIGNEE to ASSIGNEE'S insferred.
Please sign concurrently with application	Signed on the date((s) indicated beside	my/our signature(s).
INVENTOR(S) Name: Ludmil Name: Franço Name: Viktor Name:	S CHATELAIN	DATE SIGN Jan. 3, 1996 Jan. 3, 1996 Jan. 3, 1996		WITNESS (ES)
Name: Name:				
7) Name:	······		·	
Name:		·		·

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

OMB No. 0651-0027 (exp. 5/31/2002)

PATENTS ONLY Tab settings ⇔ ⇔ ▼

To the Honorable Commissioner of Patents and Trademarks	: Please record the attached original documents or copy thereof.		
Name of conveying party(ies): Genset S.A.	Name and address of receiving party(ies) Name: Proligo, LLC		
	Internal Address: 6200 Lookout Road Boulder, Colorado 80301		
Additional name(s) of conveying party(ies) attached? 🔲 Yes 🔲 No	United States of America		
3. Nature of conveyance:	1		
Assignment 🖳 Merger			
☐ Security Agreement ☐ Change of Name			
☐: Other			
10/23/02 and 11/19/02			
Execution Date:	Additional name(s) & address(es) attached?		
4. Application number(s) or patent number(s):			
If this document is being filed together with a new appli	cation, the execution date of the application is:		
A. Patent Application No.(s)	B. Patent No.(s)		
Please see Exhibit 1	Please see Exhibit 1		
Additional numbers att	r ached? ☑; Yes □; No		
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 7		
Margaret M. Wall	7. Total fee (37 CFR 3.41)\$ 280.00		
Swanson & Bratschun, LLC 1745 Shea Center Drive, Suite 330 Highlands Ranch, CO 80129	□ੁ; Enclosed		
United States of America	Authorized to be charged to deposit account		
	8. Deposit account number:		
	19-5117		
	(Attach duplicate copy of this page if paying by deposit account)		
DO NOT USE	THIS SPACE		
9. Statement and signature.			
To the best of my knowledge and belief, the foregoing in is a true copy of the original document. Margaret M. Wall, #33,462	nformation is true and correct and any attached copy		
Name of Person Signing	Signature Date		
Traine of Ferson digning	Date Date		

Total number of pages including cover sheet, attachments, and documents: 19 Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

Exhibit 1

MATTER NO	COUNTRY ID	SERIAL NO	PATENT NO	TITLE	STATUS	FILE	ISSUE
10 . US3 . CON		09/434.511	6.469.157	Process for Preparing Polynucleotides on a Solid Support and Apparatus Permitting its Implementation	ISSUED	11/ 5/1999	10/22/2002
10.US1.REG	US	08/353.556	5,869,643	Process for Preparing Polynucleotides on a Solid Support and Apparatus Permitting its Implementation	ISSUED	12/14/1994	2/ 9/1999
8.US1.PCT	US	08/591.466		Process For The Synthesis Of Nucleic Acids On A Solid Support And Compounds Which Are Useful In Particular As Solid Supports In Same Process	ABANDONED	7/ 7/1994	
10.US2.DIV	US	09/119.653		Process for Preparing Polynucleotides on a Solid Support and Apparatus Permitting its Implementation	PENDING	7/21/1998	
86 . US1 . PRO	US	60/211.344		Universal Solid Supports for Solid Phase Oligosynthesis and Methods for their Preparation and Use	EXPIRED	6/13/2000	
86.W01/US	US	10/297.631		Universal Solid Supports for Solid Phase Oligosynthesis and Methods for their Preparation and Use	PENDING	12/ 6/2002	
8.US2.DIV	marin ta tambin da santa	09/076.956	,	Process For The Synthesis Of Nucleic Acids On A Solid Support And Compounds Which Are Useful In Particular As Solid Supports In The Said Process	PENDING	7/ 7/1994	

S. Client Folders Proligo Appendix A.doc

ATTESTATION

I, Margaret M. Wall, hereby certify that I made the attached photocopy of the assignment from Genset S.A. to Proligo, L.L.C., from the original copy of said assignment and that the attached photocopy is a true copy of the original.

	Margaret M. Wall
STATE OF COLORADO)
COUNTY OF DOUGLAS) ss.)
This attestation was acknown Margaret M. Wall.	owledged before me this 15 th day of 2003 by
Witness my hand a	and official seal.
My commission ex	xpires: 05/23/06
	By:
	Notary Public
	My Commission Expires 05/23/2006

ASSIGNMENT

WHEREAS, the undersigned Genset S.A., 24 Rue Royale, 75008 Paris, France ("Assignor"), has transferred all of its right, title and interest in the United States and foreign patent rights in each of the patents and patent applications set forth in Schedule A (collectively "Patents") and all United States and foreign trademarks in the registrations and applications set forth in Schedule B (collectively "Trademarks"), to Proligo, L.L.C., 6200 Lookout Road, Boulder, Colorado 80301, U.S.A. ("Assignee"), pursuant to a Purchase and Sale Agreement dated February 21, 2002;

NOW, THEREFORE, Assignor, for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and in affirmation of the Purchase and Sale Agreement, does hereby sell, assign, convey and transfer unto Assignee all right, title and interest in and to all Patents set forth in Appendix A, together with all corresponding U.S. and foreign applications and patents which may be filed thereon, including the right to prosecute such patent applications as well as to claim priority from any application identified in Appendix A, together with the Trademarks set forth in Appendix B and appurtenant goodwill; and Assignor hereby agrees that Assignor, along with its employees, agents and assignors will sign all lawful papers, including, without limitation, all divisional, continuation, renewal, extension and reissue applications, and make all rightful oaths in execution thereof, and will generally do everything possible to aid Assignee, its successors, assigns and nominees to obtain and enforce proper protection for the Patents and Trademarks, this obligation to be binding upon Assignor and upon Assignor's personal representative or other legal successor. This Assignment includes the right, if any, for Assignee to sue or bring other actions for past, present and future infringement. Furthermore, this Assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose regarding the subject matter hereof.

IN TESTIMONY WHEREOF, Assignor and Assignee have signed below.

	GENSET S.A.
Date: 23 OCTORER 2002	By: MASEUR Title: COO
· .	PROLIGO, L.L.C.

Mov. 19, 2002

By: Andreas Wolter, Ph.D.
Title: Vice President, Research

APPENDIX A - PATENTS .

Docket No.	Country	App/Pat No.	Filing Date/ Grant Date	
8.FR1.Reg	France	FR 93/08498	July 9, 1993	Abandoned
		93 08498	Sept. 29, 1995	
8.WO1	PCT	PCT/FR94/00842	July 7, 1994	Nationalized
8.AU1.PCT	Australia	72309/94	July 7, 1994	Patented
<u> </u>	i	696421	Oct. 9, 1998	
8.CA1.PCT	Canada	2.166,765	July 7, 1994	Pending
8.EP1.PCT	Europe	94921699.8	July 7, 1994	Patented (regionalized)
	•	707 592	Sept. 3, 1997	Tatemed (regionalized)
8.AT1.PCT	Austria	94921699.8	July 7, 1994	Patented
		E 157 668	Sept. 3, 1997	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
8.BE1.PCT	Belgium	94921699.8	July 7, 1994	Patented
		707 592	Sept. 3, 1997	1 21011100
8.CH1.PCT	Switzerland	94921699.8	July 7, 1994	Patented
		707 592	Sept. 3, 1997	
8.DE1.PCT	Germany	94921699.8	July 7, 1994	Patented
		DE 694 05 396	Sept. 3, 1997	
8.DK1.PCT	Denmark	94921699.8	July 7, 1994	Patented
		707 592	Sept. 3. 1997	
8.ES1.PCT	Spain	94921699.8	July 7, 1994	Patented
···		707 592	Sept. 3, 1997	
8.FR2.PCT	France	94921699.8	July 7, 1994	Patented
·		707 592	Sept. 3, 1997	
8.GB1.PCT	United	94921699.8	July 7, 1994	Patented
	Kingdom	707 592	Sept. 3, 1997	
8.GR1.PCT	Greece	94921699.8	July 7, 1994	Patented
		970403065	Sept. 3, 1997	
8.HK1.PCT	Hong Kong	98101580.7	Feb. 27, 1998	Patented
		1002731	Sept. 11, 1998	
8.IE1.PCT	Ireland	94921699.8	July 7, 1994	Patented
		E76260	Sept. 3, 1997	,
8.IT1.PCT	Italy	94921699.8	July 7, 1994	Patented
		707 592	Sept. 3. 1997	
S.LU1.PCT	Luxembourg	94921699.8	July 7, 1994	Patented
		1 707 592	Sept. 3, 1997	
3.MC1.PCT	Monaco	94921699.8	July 7, 1994	Patented
		707 592	Sept. 3, 1997	
B.NLI.PCT	Netherlands	94921699.8	July 7, 1994	Patented
		1 707 592	Sept. 3, 1997	
.PT1.PCT	Portugal	94921699.8	July 7, 1994	Patented
		707 592	Sept. 3, 1997	
SE1.PCT	Sweden	94921699.8		Patented
		707 592	Sept. 3, 1997	ļ

Docket No	. Country	App/Pat No	Filing Date Grant Date	1
8.JP1.PCT	Japan	503866/95	July 7, 1994	Pending
8.KR1.PCT	S. Korea	96/700059	July 7, 1994	Abandoned
8.TW1.PCT	Taiwan	83110699	Nov. 18, 199	- I
8.USI.PCT	United States		Jan. 11, 1996	· · · · · · · · · · · · · · · · · · ·
		, , , , ,	3411. 11, 1990	7 touridoned
8.US2.DIV	United States	09/076,956	May 13, 1998	Pending
10.FR1.REG	France	93/15164	Dec. 16, 1993	
		93 15164	Mar. 8, 1996	1.15011.5511.55
10.AU1.REG	Australia	80432/94	Dec. 15, 1994	Patented
		693 487	July 2, 1998	
10.CA1.REG	Canada	2,138,240	Dec. 15, 1994	Pending
10.EP1.REG	Europe	94402879.4	Dec. 14, 1994	
		658 566	July 2, 1997	(agramaco)
10.AT1.EPO	Austria	94402879.4	Dec. 14, 1994	Patented
		E 154 936	July 2, 1997	
10.BE1.EPO	Belgium	94402879.4	Dec. 14, 1994	Patented
		658 566	July 2, 1997	
10.CH1.EPO	Switzerland	94402879.4	Dec. 14, 1994	Patented
		658 566	July 2, 1997	1
10.DE1.EPO	Germany	94402879.4	Dec. 14, 1994	Patented
		DE 694 04 018	July 2, 1997	
10.DK1.EPO	Denmark	94402879.4	Dec. 14, 1994	Patented
10.501.550	<u> </u>	658 566	July 2, 1997	
10.ES1.EPO	Spain	94402879.4	Dec. 14, 1994	Patented
IA EDS EDG	1.	658 566	July 2, 1997	
10.FR2.EPO	France	94402879.4	Dec. 14, 1994	Patented
10.GB1.EPO	United	658 566	July 2, 1997	
10.GBT.EFG		94402879.4	Dec. 14, 1994	Patented
10.GR1.EPO	Kingdom	658 566	July 2, 1997	
10.GK1.EFG	Greece	94402879.4	Dec. 14, 1994	Patented
10.HK1.EPO	Hong Kong	3024829	July 2, 1997	
10.11K1.L1O	Hong Kong	97102706.5 1002330	Dec. 31, 1997	Patented
10.IE1.EPO	Ireland	94402879.4	Aug. 14, 1998	
10.121.210	Letand	E74935	Dec. 14, 1994	Patented
10.IT1.EPO	Italy	94402879.4	July 2, 1997	
	l la.y	658 566	Dec. 14, 1994	Patented
10.LU1.EPO	Luxembourg	94402879.4	July 2, 1997 Dec. 14, 1994	Datasta
		658 566	July 2, 1997	Patented
10.MC1.EPO	Monaco	94402\$79.4		Description
		658 566	Dec. 14, 1994	Patented
10.NL1.EPO	Netherlands	94402879.4	July 2, 1997	Davasad
		658 566	Dec. 14, 1994	Patented
10.PT1.EPO	Portugal	94402879.4	July 2, 1997	D
	- Ortugui	658 566	Dec. 14, 1994	Patented
10.SE1.EPO	Sweden	94402879.4	July 2, 1997	Danasad
		658 566	1	Patented
<u>-</u>	<u>-</u>	050 500	July 2, 1997	

Docket No.	Country	App/Pat No.	Filing Date/ Grant Date	Status
10.JP1.REG	Japan	313790/94	Dec. 31, 1994	Pending
10.KR1.REG	Korea	94-34347	Dec. 15, 1994	Pending
10.TW1.REG	Taiwan	83111150 NI-099582	Nov. 30, 1994 Jan. 1, 1999	Patented
10.US1.REG	United States	08/358,556 5,869,643	Dec. 14, 1994 Feb. 9, 1999	Patented
10.US2.DIV	United States	09/119,653	July 21, 1998	Pending
10.US3.CON	United States	09/434,511	Nov. 5, 1999	Pending
86.US1.PRO	United States	60/211,344	June 13, 2000	Expired
86.WO1	PCT	PCT/IB01/01392 WO 01/96357	June 12, 2001 Dec. 20, 2001	Pending

APPENDIX B - TRADEMARKS

E@sy OLIGO

Docket No.	Country	App/Pat No.	Filing Date/ Grant Date	Status
5.TMEP.1	Europe	01930379	Oct. 20, 2000	Pending
5.TMJP.1	Japan	2000-110206	Oct. 10, 2000	Pending
5.TMUS.1	U.S.	76/057,643	May 26, 2000	Pending